

Connecting via Winsock to STN

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LOGINID:ssept189dxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 DEC 01 ChemPort single article sales feature unavailable
NEWS 3 JAN 06 The retention policy for unread STNmail messages
will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 4 JAN 07 WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
Classification Data
NEWS 5 FEB 02 Simultaneous left and right truncation (SLART) added
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 6 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 7 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 8 FEB 10 COMPENDEX reloaded and enhanced
NEWS 9 FEB 11 WTEXTILES reloaded and enhanced
NEWS 10 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS
patent records provide insights into related prior
art
NEWS 11 FEB 19 Increase the precision of your patent queries -- use
terms from the IPC Thesaurus, Version 2009.01
NEWS 12 FEB 23 Several formats for image display and print options
discontinued in USPATFULL and USPAT2
NEWS 13 FEB 23 MEDLINE now offers more precise author group fields
and 2009 MeSH terms
NEWS 14 FEB 23 TOXCENTER updates mirror those of MEDLINE - more
precise author group fields and 2009 MeSH terms
NEWS 15 FEB 23 Three million new patent records blast AEROSPACE into
STN patent clusters
NEWS 16 FEB 25 USGENE enhanced with patent family and legal status
display data from INPADOCDB
NEWS 17 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display
formats
NEWS 18 MAR 11 EPFULL backfile enhanced with additional full-text
applications and grants
NEWS 19 MAR 11 ESBIOBASE reloaded and enhanced
NEWS 20 MAR 20 CAS databases on STN enhanced with new super role
for nanomaterial substances
NEWS 21 MAR 23 CA/CAPLUS enhanced with more than 250,000 patent
equivalents from China
NEWS 22 MAR 30 IMSPATENTS reloaded and enhanced
NEWS 23 APR 03 CAS coverage of exemplified prophetic substances
enhanced
NEWS 24 APR 07 STN is raising the limits on saved answers
NEWS 25 APR 24 CA/CAPLUS now has more comprehensive patent assignee
information
NEWS 26 APR 26 USPATFULL and USPAT2 enhanced with patent
assignment/reassignment information

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,

AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 04:57:44 ON 27 APR 2009

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.22 0.22

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 04:57:52 ON 27 APR 2009

68 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s blue green algae and cultur? and edible and free(p)inorganic(p)addit?

0* FILE ADISNEWS
0* FILE ANTE
0* FILE AQUALINE
0* FILE BIOENG
0* FILE BIOTECHABS
0* FILE BIOTECHDS
0* FILE BIOTECHNO
0* FILE CEABA-VTB
0* FILE CIN

19 FILES SEARCHED...

0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI

33 FILES SEARCHED...

0* FILE FSTA
0* FILE KOSMET
0* FILE NTIS
0* FILE NUTRACEUT
0* FILE PASCAL
0* FILE PHARMAML

52 FILES SEARCHED...

5 FILE USPATFALL
1 FILE USPAT2
0* FILE WATER

66 FILES SEARCHED...

2 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L1 QUE BLUE GREEN ALGAE AND CULTUR? AND EDIBLE AND FREE(P) INORGANIC(P) ADDIT
?

=> file uspatfull uspat2

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.04	2.26

FILE 'USPATFULL' ENTERED AT 04:59:40 ON 27 APR 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 04:59:40 ON 27 APR 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l1

L2 6 L1

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 6 DUP REM L2 (0 DUPLICATES REMOVED)

=> d l3 1-6

L3 ANSWER 1 OF 6 USPATFULL on STN

AN 2007:136231 USPATFULL

TI Process for the production of fine chemicals

IN Puzio, Piotr, Berlin, GERMANY, FEDERAL REPUBLIC OF

Wendel, Birgit, Berlin, GERMANY, FEDERAL REPUBLIC OF

Herold, Michael Manfred, Berlin, GERMANY, FEDERAL REPUBLIC OF

Looser, Ralf, Berlin, GERMANY, FEDERAL REPUBLIC OF

Blau, Astrid, Stahnsdorf, GERMANY, FEDERAL REPUBLIC OF

Plesch, Gunnar, Potsdam, GERMANY, FEDERAL REPUBLIC OF

Kamlage, Beate, Berlin, GERMANY, FEDERAL REPUBLIC OF

Schauwecker, Florian, Berlin, GERMANY, FEDERAL REPUBLIC OF

PA Metanomics GmbH, Berlin, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

PI US 20070118916 A1 20070524

AI US 2006-516230 A1 20060906 (11)

PRAI EP 2006-110426 20060224

EP 2006-110579 20060228

EP 2006-110425 20060224

EP 2006-110423 20060224

EP 2006-110418 20060224

EP 2006-110383 20060224

EP 2006-110378 20060224

EP 2006-110367 20060224

EP 2006-110327 20060223

EP 2006-110325 20060223

EP 2006-110959 20060224

EP 2006-110289 20060222

EP 2006-110005 20060216

EP 2006-110215 20060221

EP 2006-110211 20060214

EP 2006-110968 20060217

EP 2006-101589 20060207

EP 2005-113027 20051222

EP 2005-112431 20051215

EP 2005-112039 20051212

EP 2005-111910 20051201

EP 2005-111170 20051117

EP 2005-110441 20051108
 EP 2005-110433 20051107
 EP 2005-109592 20051014
 DT Utility
 FS APPLICATION
 LN.CNT 80479
 INCL INCLM: 800/278.000
 INCLS: 435/419.000; 435/468.000; 435/193.000; 536/023.200
 NCL NCLM: 800/278.000
 NCLS: 435/193.000; 435/419.000; 435/468.000; 536/023.200
 IC IPCI A01H0001-00 [I,A]; C07H0021-04 [I,A]; C07H0021-00 [I,C*];
 C12N0009-10 [I,A]; C12N0015-82 [I,A]; C12N0005-04 [I,A]
 IPCR A01H0001-00 [I,C]; A01H0001-00 [I,A]; C07H0021-00 [I,C];
 C07H0021-04 [I,A]; C12N0005-04 [I,C]; C12N0005-04 [I,A];
 C12N0009-10 [I,C]; C12N0009-10 [I,A]; C12N0015-82 [I,C];
 C12N0015-82 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 L3 ANSWER 2 OF 6 USPATFULL on STN
 AN 2005:43751 USPATFULL
 TI Method for culturing organic blue-green
 algae
 IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA
 PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF
 CHINA (non-U.S. corporation)
 PI US 20050037480 A1 20050217
 AI US 2004-800623 A1 20040316 (10)
 PRAI TW 2003-92122412 20030814
 DT Utility
 FS APPLICATION
 LN.CNT 290
 INCL INCLM: 435/252.100
 NCL NCLM: 435/252.100
 IC [7]
 ICM C12N001-20
 IPCI C12N0001-20 [ICM,7]
 IPCR C12N0001-12 [I,C*]; C12N0001-12 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 L3 ANSWER 3 OF 6 USPATFULL on STN
 AN 2003:93135 USPATFULL
 TI Novel isozyme of autoclavable superoxide dismutase (SOD), a process for
 the identification and extraction of the SOD and use of the said SOD in
 cosmetic, food, and pharmaceutical compositions
 IN Kumar, Sanjay, Himachal Pradesh, INDIA
 Sahoo, Rashmita, Himachal Pradesh, INDIA
 Ahuja, Paramvir Singh, Himachal Pradesh, INDIA
 PA Council of Scientific & Industrial Research (non-U.S. corporation)
 PI US 20030064494 A1 20030403
 US 7037697 B2 20060502
 AI US 2002-274053 A1 20021021 (10)
 RLI Division of Ser. No. US 2000-617118, filed on 14 Jul 2000, GRANTED, Pat.
 No. US 6485950
 DT Utility
 FS APPLICATION
 LN.CNT 1977
 INCL INCLM: 435/189.000
 NCL NCLM: 435/189.000
 NCLS: 424/094.400; 435/183.000
 IC [7]
 ICM C12N009-02
 IPCI C12N0009-02 [ICM,7]

IPCI-2 C12N0009-02 [I,A]; C12N0009-00 [I,A]; A61K0033-44 [I,A]
 IPCR C12N0009-02 [I,A]; A23G0004-00 [I,C*]; A23G0004-00 [I,A];
 A23G0004-06 [I,C*]; A23G0004-12 [I,A]; A61K0008-30 [I,C*];
 A61K0008-66 [I,A]; A61K0033-44 [I,C]; A61K0033-44 [I,A];
 A61K0038-00 [N,C*]; A61K0038-00 [N,A]; A61Q0019-00 [I,C*];
 A61Q0019-00 [I,A]; C12N0009-00 [I,C]; C12N0009-00 [I,A];
 C12N0009-02 [I,C]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 6 USPATFULL on STN
 AN 2002:310795 USPATFULL
 TI Isozyme of autoclavable superoxide dismutase (SOD), a process for the
 identification and extraction of the SOD in cosmetic, food and
 pharmaceutical compositions
 IN Kumar, Sanjay, Himachal Pradesh, INDIA
 Sahoo, Rashmita, Himachal Pradesh, INDIA
 Ahuja, Paramvir Singh, Himachal Pradesh, INDIA
 PA Council of Scientific and Industrial Research, New Delhi, INDIA
 (non-U.S. corporation)
 PI US 6485950 B1 20021126
 AI US 2000-617118 20000714 (9)
 DT Utility
 FS GRANTED
 LN.CNT 1774
 INCL INCLM: 435/189.000
 INCLS: 435/183.000; 424/094.400
 NCL NCLM: 435/189.000
 NCLS: 424/094.400; 435/183.000; 977/915.000; 977/926.000
 IC [7]
 ICM C12N0009-02
 ICS C12N0009-00; A61K0038-44
 IPCI C12N0009-02 [ICM,7]; C12N0009-00 [ICS,7]; A61K0038-44 [ICS,7];
 A61K0038-43 [ICS,7,C*]
 IPCR A23G0004-00 [I,C*]; A23G0004-00 [I,A]; A23G0004-06 [I,C*];
 A23G0004-12 [I,A]; A61K0008-30 [I,C*]; A61K0008-66 [I,A];
 A61K0038-00 [N,C*]; A61K0038-00 [N,A]; A61Q0019-00 [I,C*];
 A61Q0019-00 [I,A]; C12N0009-02 [I,C*]; C12N0009-02 [I,A]
 EXF 435/189; 435/183; 424/94.4
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 6 USPATFULL on STN
 AN 1998:95244 USPATFULL
 TI Repellent compositions containing aromatic aldehydes
 IN Emerson, Ralph W., Davis, CA, United States
 Crandall, Jr., Bradford G., Davis, CA, United States
 PA Proguard, Inc., Suisun City, CA, United States (U.S. corporation)
 PI US 5792467 19980811
 AI US 1996-778061 19961224 (8)
 RLI Continuation-in-part of Ser. No. US 1996-640962, filed on 9 May 1996
 which is a continuation-in-part of Ser. No. US 1995-486943, filed on 7
 Jun 1995
 DT Utility
 FS Granted
 LN.CNT 2154
 INCL INCLM: 424/405.000
 INCLS: 424/403.000; 424/406.000; 514/919.000; 514/701.000
 NCL NCLM: 424/405.000
 NCLS: 424/403.000; 424/406.000; 514/701.000; 514/919.000
 IC [6]
 ICM A01N025-22
 IPCI A01N0025-22 [ICM,6]
 IPCR A01N0035-00 [I,C*]; A01N0035-02 [I,A]; C12N0009-02 [I,C*];

C12N0009-02 [I,A]; C12N0009-04 [I,C*]; C12N0009-04 [I,A];
C12N0015-82 [I,C*]; C12N0015-82 [I,A]
EXF 424/403; 424/405-407; 514/916; 514/919; 514/701
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 6 USPAT2 on STN
AN 2003:93135 USPAT2
TI Isozyme of autoclavable superoxide dismutase (SOD), a process for the
identification and extraction of the SOD and use of the said SOD in
cosmetic, food, and pharmaceutical compositions
IN Kumar, Sanjay, Himachel Pradesh, INDIA
Sahoo, Rashmita, Himachal Pradesh, INDIA
Ahuja, Paramvir Singh, Himachal Pradesh, INDIA
PA Council of Scientific & Industrial Research, New Delhi, INDIA (non-U.S.
corporation)
PI US 7037697 B2 20060502
AI US 2002-274053 20021021 (10)
RLI Division of Ser. No. US 2000-617118, filed on 14 Jul 2000, Pat. No. US
6485950
DT Utility
FS GRANTED
LN.CNT 1671
INCL INCLM: 435/189.000
INCLS: 435/183.000; 424/094.400
NCL NCLM: 435/189.000
NCLS: 424/094.400; 435/183.000
IC IPCI C12N0009-02 [ICM,7]
IPCI-2 C12N0009-02 [I,A]; C12N0009-00 [I,A]; A61K0033-44 [I,A]
IPCR C12N0009-02 [I,A]; A23G0004-00 [I,C*]; A23G0004-00 [I,A];
A23G0004-06 [I,C*]; A23G0004-12 [I,A]; A61K0008-30 [I,C*];
A61K0008-66 [I,A]; A61K0033-44 [I,C]; A61K0033-44 [I,A];
A61K0038-00 [N,C*]; A61K0038-00 [N,A]; A61Q0019-00 [I,C*];
A61Q0019-00 [I,A]; C12N0009-00 [I,C]; C12N0009-00 [I,A];
C12N0009-02 [I,C]
EXF 435/189; 435/183; 424/94.4
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d hist

(FILE 'HOME' ENTERED AT 04:57:44 ON 27 APR 2009)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 04:57:52 ON 27 APR 2009
SEA BLUE GREEN ALGAE AND CULTUR? AND EDIBLE AND FREE(P)INORGANI

0* FILE ADISNEWS
0* FILE ANTE
0* FILE AQUALINE
0* FILE BIOENG
0* FILE BIOTECHABS
0* FILE BIOTECHDS
0* FILE BIOTECHNO
0* FILE CEABA-VTB
0* FILE CIN
0* FILE FOMAD
0* FILE FOREGE
0* FILE FROSTI
0* FILE FSTA
0* FILE KOSMET

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0* FILE NTIS
0* FILE NUTRACEUT
0* FILE PASCAL
0* FILE PHARMAML
5 FILE USPATFULL
1 FILE USPAT2
0* FILE WATER
L1 QUE BLUE GREEN ALGAE AND CULTUR? AND EDIBLE AND FREE(P) INORGAN
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FILE 'USPATFULL, USPAT2' ENTERED AT 04:59:40 ON 27 APR 2009
L2 6 S L1
L3 6 DUP REM L2 (0 DUPLICATES REMOVED)
```

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
9.66	11.92

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 05:00:17 ON 27 APR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspt189dxw

PASSWORD:

LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.
You either typed them incorrectly, or line noise may
have corrupted them.

Do you wish to retry the logon?

Enter choice (y/N):

Do you wish to use the same loginid and password?

Enter choice (y/N):ssspt189dxw

LOGINID:

PASSWORD:

LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.
You either typed them incorrectly, or line noise may
have corrupted them.

Do you wish to retry the logon?

Enter choice (y/N):

Connecting via Winsock to STN

LOGINID:

ssspt189dxw

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspt189dxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 APR 02 CAS Registry Number Crossover Limits Increased to
500,000 in Key STN Databases
NEWS 3 APR 02 PATDPAFULL: Application and priority number formats
enhanced
NEWS 4 APR 02 DWPI: New display format ALLSTR available
NEWS 5 APR 02 New Thesaurus Added to Derwent Databases for Smooth
Sailing through U.S. Patent Codes
NEWS 6 APR 02 EMBASE Adds Unique Records from MEDLINE, Expanding
Coverage back to 1948
NEWS 7 APR 07 CA/Caplus CLASS Display Streamlined with Removal of
Pre-IPC 8 Data Fields
NEWS 8 APR 07 50,000 World Traditional Medicine (WTM) Patents Now
Available in Caplus
NEWS 9 APR 07 MEDLINE Coverage Is Extended Back to 1947
NEWS 10 JUN 16 WPI First View (File WPIFV) will no longer be
available after July 30, 2010
NEWS 11 JUN 18 DWPI: New coverage - French Granted Patents
NEWS 12 JUN 18 CAS and FIZ Karlsruhe announce plans for a new
STN platform
NEWS 13 JUN 18 IPC codes have been added to the INSPEC backfile
(1969-2009)
NEWS 14 JUN 21 Removal of Pre-IPC 8 data fields streamline displays
in CA/Caplus, CASREACT, and MARPAT
NEWS 15 JUN 21 Access an additional 1.8 million records exclusively
enhanced with 1.9 million CAS Registry Numbers --
EMBASE Classic on STN
NEWS 16 JUN 28 Introducing "CAS Chemistry Research Report": 40 Years
of Biofuel Research Reveal China Now Atop U.S. in
Patenting and Commercialization of Bioethanol
NEWS 17 JUN 29 Enhanced Batch Search Options in DGENE, USGENE,
and PCTGEN
NEWS 18 JUL 19 Enhancement of citation information in INPADOC
databases provides new, more efficient competitor
analyses
NEWS 19 JUL 26 CAS coverage of global patent authorities has
expanded to 61 with the addition of Costa Rica
NEWS 20 SEP 15 MEDLINE Cited References provide additional
relevant records with no additional searching.

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

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FILE 'HOME' ENTERED AT 19:56:14 ON 25 SEP 2010

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 19:56:39 ON 25 SEP 2010

62 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s (cyanobact? or blue-green) and cultur? and (media or medium) and (food or edib?) and organic and protein and (Lactobacillus or Bacillus or yeast or Streptococcus or Rhodopseudomonas)

11 FILES SEARCHED...

23 FILES SEARCHED...

36 FILES SEARCHED...

1 FILE PROMT

54 FILES SEARCHED...

1170 FILE USPATFULL

316 FILE USPAT2

1 FILE WPIDS

1 FILE WPINDEX

5 FILES HAVE ONE OR MORE ANSWERS, 62 FILES SEARCHED IN STNINDEX

L1 QUE (CYANOACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM) AND (FOOD OR EDIB?) AND ORGANIC AND PROTEIN AND (LACTOBACILLUS OR BACILLUS OR YEAST OR STREPTOCOCCUS OR RHODOPSEUDOMONAS)

=>

=> file promt uspatfull uspat2

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

26.22

26.44

FILE 'PROMT' ENTERED AT 20:19:12 ON 25 SEP 2010

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FILE 'USPATFULL' ENTERED AT 20:19:12 ON 25 SEP 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 20:19:12 ON 25 SEP 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

```

=> s l1
L2      1487 L1

=> dup rem l2
PROCESSING IS APPROXIMATELY 23% COMPLETE FOR L2
PROCESSING IS APPROXIMATELY 46% COMPLETE FOR L2
PROCESSING IS APPROXIMATELY 71% COMPLETE FOR L2
PROCESSING COMPLETED FOR L2
L3      1487 DUP REM L2 (0 DUPLICATES REMOVED)

=> s l3 and (rhamnosum or acidophilus or lactis or subtilis or palustris)
2 FILES SEARCHED...
L4      744 L3 AND (RHAMNOSUM OR ACIDOPHILUS OR LACTIS OR SUBTILIS OR PALUSTRIS)

=> s l4 and edible(p)algae
L5      12 L4 AND EDIBLE(P) ALGAE

=> d l5 1-12

L5      ANSWER 1 OF 12 USPATFULL on STN
AN      2010:24300 USPATFULL
TI      EXTRACTS OF APHANIZOMENON FLOS AQUAE AND NUTRITIONAL, COSMETIC AND
        PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME
IN      Scoglio, Stefano, Urbino, ITALY
        Canestrari, Franco, Urbino, ITALY
        Benedetti, Serena, Urbino, ITALY
        Zolla, Leilo, Urbino, ITALY
PA      NUTRATEC S.R.L., Urbino, ITALY (non-U.S. corporation)
PI      US 20100021493      A1 20100128
AI      US 2007-306478      A1 20070627 (12)
        WO 2007-EP5623      20070627
        20091008 PCT 371 date
PRAI    US 2006-816594P      20060627 (60)
DT      Utility
FS      APPLICATION
LN.CNT  1677
INCL    INCLM: 424/195.170
        INCLS: 514/422.000; 514/564.000; 514/185.000
NCL     NCLM: 424/195.170
        NCLS: 514/185.000; 514/422.000; 514/564.000
IC      IPCI  A61K0036-02 [I,A]; A61K0031-4025 [I,A]; A61K0031-197 [I,A];
        A61K0031-185 [I,C*]; A61K0031-555 [I,A]; A61K0008-96 [I,A];
        A61P0039-06 [I,A]; A61P0039-00 [I,C*]; A61P0029-00 [I,A];
        A61P0035-00 [I,A]; A61P0017-00 [I,A]; A61P0027-02 [I,A];
        A61P0027-00 [I,C*]
        IPCR  A61K0036-02 [I,C]; A61K0036-02 [I,A]; A61K0008-96 [I,C];
        A61K0008-96 [I,A]; A61K0031-185 [I,C]; A61K0031-197 [I,A];
        A61K0031-4025 [I,C]; A61K0031-4025 [I,A]; A61K0031-555 [I,C];
        A61K0031-555 [I,A]; A61P0017-00 [I,C]; A61P0017-00 [I,A];
        A61P0027-00 [I,C]; A61P0027-02 [I,A]; A61P0029-00 [I,C];
        A61P0029-00 [I,A]; A61P0035-00 [I,C]; A61P0035-00 [I,A];
        A61P0039-00 [I,C]; A61P0039-06 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5      ANSWER 2 OF 12 USPATFULL on STN
AN      2009:288609 USPATFULL
TI      HOPMI Mediated disease resistance to Pseudomonas syringae in Arabidopsis
IN      He, Sheng Yang, Okemos, MI, UNITED STATES
        Nomura, Kinya, East Lansing, MI, UNITED STATES
PA      Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)

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PI US 20090258825 A1 20091015
 AI US 2008-938 A1 20080221 (12)
 PRAI US 2007-902576P 20070221 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 8900
 INCL INCLM: 514/012.000
 INCLS: 435/320.100; 530/350.000; 435 4
 NCL NCLM: 514/012.000
 NCLS: 435/004.000; 435/320.100; 530/350.000
 IC IPCI A61K0038-16 [I,A]; C12N0015-63 [I,A]; C07K0014-005 [I,A];
 C12Q0001-00 [I,A]
 IPCR A61K0038-16 [I,C]; A61K0038-16 [I,A]; C07K0014-005 [I,C];
 C07K0014-005 [I,A]; C12N0015-63 [I,C]; C12N0015-63 [I,A];
 C12Q0001-00 [I,C]; C12Q0001-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 12 USPATFULL on STN
 AN 2009:34079 USPATFULL
 TI Protection against herbivores
 IN Howe, Gregg A., East Lansing, MI, UNITED STATES
 Chen, Hui, East Lansing, MI, UNITED STATES
 PI US 20090031457 A1 20090129
 AI US 2005-666714 A1 20051031 (11)
 WO 2005-US39363 20051031
 20080904 PCT 371 date
 PRAI US 2004-623462P 20041029 (60)
 US 2005-700652P 20050719 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 6852
 INCL INCLM: 800/302.000
 INCLS: 536/023.200; 435/320.100; 800/298.000; 800/317.000; 800/319.000;
 800/306.000; 800/317.400; 435/419.000; 435/468.000
 NCL NCLM: 800/302.000
 NCLS: 435/320.100; 435/419.000; 435/468.000; 536/023.200; 800/298.000;
 800/306.000; 800/317.000; 800/317.400; 800/319.000
 IC IPCI A01H0005-00 [I,A]; C07H0021-00 [I,A]; A01H0005-10 [I,A];
 C12N0015-82 [I,A]; C12N0005-04 [I,A]; C12N0015-63 [I,A]
 IPCR A01H0005-00 [I,C]; A01H0005-00 [I,A]; A01H0005-10 [I,C];
 A01H0005-10 [I,A]; C07H0021-00 [I,C]; C07H0021-00 [I,A];
 C12N0005-04 [I,C]; C12N0005-04 [I,A]; C12N0015-63 [I,C];
 C12N0015-63 [I,A]; C12N0015-82 [I,C]; C12N0015-82 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 12 USPATFULL on STN
 AN 2009:34078 USPATFULL
 TI AtMIN7 mediated disease resistance to Pseudomonas syringae in
 arabidopsis
 IN He, Sheng Yang, Okemos, MI, UNITED STATES
 Nomura, Kinya, East Lansing, MI, UNITED STATES
 PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)
 PI US 20090031456 A1 20090129
 AI US 2008-959 A1 20080221 (12)
 PRAI US 2007-902576P 20070221 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 8708
 INCL INCLM: 800/301.000
 INCLS: 435/320.100; 800/317.000; 800/306.000; 800/320.000
 NCL NCLM: 800/301.000
 NCLS: 435/320.100; 800/306.000; 800/317.000; 800/320.000

IC IPCI C12N0015-82 [I,A]; A01H0005-00 [I,A]
IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];
A01H0005-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 12 USPATFULL on SIN

AN 2005:173251 USPATFULL

TI Novel carotenoid hydroxylases for use in engineering carotenoid
metabolism in plants

IN DellaPenna, Dean, Williamston, MI, UNITED STATES

Tian, Li, Ardmore, OK, UNITED STATES

Kim, Joonyul, Inje, KOREA, REPUBLIC OF

PI US 20050150002 A1 20050707

AI US 2004-751235 A1 20040102 (10)

DT Utility

FS APPLICATION

LN.CNT 6448

INCL INCLM: 800/278.000

INCLS: 435/468.000; 435/419.000; 435/189.000; 800/282.000; 435/067.000

NCL NCLM: 800/278.000

NCLS: 435/067.000; 435/189.000; 435/419.000; 435/468.000; 800/282.000

IPC [7]

IPCI A01H0001-00 [ICM,7]; C12N0015-82 [ICS,7]; C12N0009-02 [ICS,7];

C12N0005-04 [ICS,7]; C12P0023-00 [ICS,7]

IPCR C12N0009-02 [I,C*]; C12N0009-02 [I,A]; C12N0015-82 [I,C*];

C12N0015-82 [I,A]; C12P0023-00 [I,C*]; C12P0023-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 12 USPATFULL on SIN

AN 2005:45498 USPATFULL

TI ADS genes for reducing saturated fatty acid levels in seed oils

IN Heilmann, Ingo H., Bay Shore, NY, UNITED STATES

Shanklin, John, Shoreham, NY, UNITED STATES

PA Brookhaven Science Associates, LLC, Upton, NY (U.S. corporation)

PI US 20050039234 A1 20050217

US 7655833 B2 20100202

AI US 2004-857765 A1 20040528 (10)

PRAI US 2003-474045P 20030529 (60)

DT Utility

FS APPLICATION

LN.CNT 4482

INCL INCLM: 800/287.000

INCLS: 800/312.000; 536/023.200; 435/468.000; 435/415.000; 435/200.000

NCL NCLM: 800/281.000; 800/287.000

NCLS: 800/298.000; 435/200.000; 435/415.000; 435/468.000; 536/023.200;

800/312.000

IPC [7]

IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]; C12N0009-24 [ICS,7];

A01H0001-00 [ICS,7]; C12N0015-87 [ICS,7]; A01H0005-00 [ICS,7];

C12N0005-04 [ICS,7]

IPCI-2 C12N0015-82 [I,A]; A01H0005-00 [I,A]

IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];

A01H0005-00 [I,A]; C07H0021-00 [I,C*]; C07H0021-04 [I,A];

C12N0009-02 [I,C*]; C12N0009-02 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 12 USPATFULL on SIN

AN 2005:43751 USPATFULL

TI Method for culturing organic blue-
green algae

IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA

PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF

CHINA (non-U.S. corporation)
 PI US 20050037480 A1 20050217
 AI US 2004-800623 A1 20040316 (10)
 PRAI TW 2003-92122412 20030814
 DT Utility
 FS APPLICATION
 LN.CNT 290
 INCL INCLM: 435/252.100
 NCL NCLM: 435/252.100
 IPC [7]
 IPCI C12N0001-20 [ICM,7]
 IPCR C12N0001-12 [I,C*]; C12N0001-12 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 12 USPATFULL on STN
 AN 2004:180328 USPATFULL
 TI Plastid division and related genes and proteins, and methods of use
 IN Osteryoung, Katherine W., Williamston, MI, UNITED STATES
 Vitha, Stanislav, Haslett, MI, UNITED STATES
 Koksharova, Olga A., Moscow, RUSSIAN FEDERATION
 Gao, Hongbo, East Lansing, MI, UNITED STATES
 PA The Board of Trustees Operating Michigan State University, East Lansing,
 MI (U.S. corporation)
 PI US 20040139500 A1 20040715
 US 7667099 B2 20100223
 AI US 2003-600070 A1 20030620 (10)
 PRAI US 2002-402242P 20020809 (60)
 US 2002-390140P 20020620 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 11185
 INCL INCLM: 800/282.000
 INCLS: 536/023.200; 435/189.000; 435/069.100; 435/419.000; 435/468.000;
 435/320.100
 NCL NCLM: 800/298.000; 800/282.000
 NCLS: 435/320.100; 435/418.000; 536/023.200; 435/069.100; 435/189.000;
 435/419.000; 435/468.000
 IPC [7]
 IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]; C12N0009-02 [ICS,7];
 A01H0001-00 [ICS,7]; C12N0015-82 [ICS,7]; C12N0005-04 [ICS,7]
 IPCI-2 A01H0005-00 [I,A]; A01H0005-10 [I,A]; C12N0015-82 [I,A];
 C12N0015-29 [I,A]
 IPCR A01H0005-00 [I,C]; A01H0005-00 [I,A]; A01H0001-00 [I,C*];
 A01H0001-00 [I,A]; A01H0005-10 [I,C]; A01H0005-10 [I,A];
 C07H0021-00 [I,C*]; C07H0021-00 [I,A]; C07H0021-04 [I,A];
 C07K0014-195 [I,C*]; C07K0014-195 [I,A]; C07K0014-405 [I,C*];
 C07K0014-405 [I,A]; C07K0014-415 [I,C*]; C07K0014-415 [I,A]; C12N
 [I,S]; C12N0001-21 [I,C*]; C12N0001-21 [I,A]; C12N0005-04 [I,C*];
 C12N0005-04 [I,A]; C12N0005-10 [I,C*]; C12N0005-10 [I,A];
 C12N0009-02 [I,C*]; C12N0009-02 [I,A]; C12N0015-11 [I,C*];
 C12N0015-11 [I,A]; C12N0015-29 [I,C]; C12N0015-29 [I,A];
 C12N0015-31 [I,C*]; C12N0015-31 [I,A]; C12N0015-82 [I,C];
 C12N0015-82 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 12 USPATFULL on STN
 AN 77:22304 USPATFULL
 TI Method for treatment of microorganisms
 IN Nakabayashi, Yutaka, Fukuoka, Japan
 PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S.
 corporation)
 PI US 4021303 19770503

AI US 1975-645505 19751230 (5)
 RLI Continuation-in-part of Ser. No. US 1973-414576, filed on 9 Nov 1973,
 now abandoned
 PRAI JP 1972-112026 19721110
 JP 1972-112027 19721110
 DT Utility
 FS Granted
 LN.CNT 692
 INCL INCLM: 195/005.000
 INCLS: 426/656.000; 260/112.000R
 NCL NCLM: 435/259.000
 NCLS: 426/656.000; 435/804.000; 435/839.000; 435/843.000; 435/911.000;
 435/921.000; 435/923.000; 435/924.000; 435/940.000; 435/941.000;
 435/942.000; 435/946.000; 530/370.000; 530/371.000; 530/410.000;
 530/412.000; 530/821.000; 530/824.000; 530/825.000
 IPC [2]
 IPCI A23J0003-00 [ICM,2]
 IPCR A23J0001-00 [I,C*]; A23J0001-18 [I,A]; A23J0003-00 [I,C*];
 A23J0003-22 [I,A]; C12N0001-06 [I,C*]; C12N0001-06 [I,A]
 EXF 426/60; 426/656; 426/431; 426/478; 195/4; 195/5; 195/28N; 195/105;
 260/112R
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 12 USPATFULL on STN
 AN 76:32360 USPATFULL
 TI Method for treatment of microorganisms
 IN Nakabayashi, Yutaka, Fukuoka, Japan
 PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S.
 corporation)
 PI US 3962466 19760608
 AI US 1974-472327 19740522 (5)
 RLI Division of Ser. No. US 1973-414576, filed on 9 Nov 1973, now Defensive
 Publication No.
 PRAI JP 1972-112026 19721110
 JP 1972-112027 19721110
 DT Utility
 FS Granted
 LN.CNT 585
 INCL INCLM: 426/060.000
 INCLS: 426/650.000; 426/655.000; 195/028.000N; 195/104.000; 260/112.000R
 NCL NCLM: 426/060.000
 NCLS: 426/650.000; 426/655.000; 435/255.700; 435/259.000; 435/803.000;
 435/839.000; 435/853.000; 530/371.000; 530/821.000; 530/824.000
 IPC [2]
 IPCI A23L0001-28 [ICM,2]
 IPCR A23J0001-00 [I,C*]; A23J0001-18 [I,A]; A23J0003-00 [I,C*];
 A23J0003-22 [I,A]; C12N0001-06 [I,C*]; C12N0001-06 [I,A]
 EXF 426/204; 426/364; 426/60; 426/656; 426/655; 426/650; 195/28N; 195/81;
 195/121; 195/122; 195/123; 195/104; 195/105; 260/112R
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 12 USPAT2 on STN
 AN 2005:45498 USPAT2
 TI ADS genes for reducing saturated fatty acid levels in seed oils
 IN Heilmann, Ingo H., Bay Shore, NY, UNITED STATES
 Shanklin, John, Shoreham, NY, UNITED STATES
 PA Brookhaven Science Associates, LLC, Upton, NY, UNITED STATES (U.S.
 corporation)
 PI US 7655833 B2 20100202
 AI US 2004-857765 20040528 (10)
 PRAI US 2003-474045P 20030529 (60)
 DT Utility

FS GRANTED
LN.CNT 4398
INCL INCLM: 800/281.000
INCLS: 800/298.000
NCL NCLM: 800/281.000; 800/287.000
NCLS: 800/298.000; 435/200.000; 435/415.000; 435/468.000; 536/023.200;
800/312.000
IC IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]; C12N0009-24 [ICS,7];
A01H0001-00 [ICS,7]; C12N0015-87 [ICS,7]; A01H0005-00 [ICS,7];
C12N0005-04 [ICS,7]
IPCI-2 C12N0015-82 [I,A]; A01H0005-00 [I,A]
IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];
A01H0005-00 [I,A]; C07H0021-00 [I,C*]; C07H0021-04 [I,A];
C12N0009-02 [I,C*]; C12N0009-02 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 12 USPAT2 on STN
AN 2004:180328 USPAT2
TI Plastid division and related genes and proteins, and methods of use
IN Osteryoung, Katherine W., Williamston, MI, UNITED STATES
Vitha, Stanislav, Haslett, MI, UNITED STATES
Koksharova, Olga A., Moscow, RUSSIAN FEDERATION
Gao, Hongbo, East Lansing, MI, UNITED STATES
PA Board of Trustees of Michigan State University, Lansing, MI, UNITED
STATES (U.S. corporation)
PI US 7667099 B2 20100223
AI US 2003-600070 20030620 (10)
PRAI US 2002-402242P 20020809 (60)
US 2002-390140P 20020620 (60)
DT Utility
FS GRANTED
LN.CNT 11344
INCL INCLM: 800/298.000
INCLS: 536/023.200; 435/320.100; 435/418.000
NCL NCLM: 800/298.000; 800/282.000
NCLS: 435/320.100; 435/418.000; 536/023.200; 435/069.100; 435/189.000;
435/419.000; 435/468.000
IC IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]; C12N0009-02 [ICS,7];
A01H0001-00 [ICS,7]; C12N0015-82 [ICS,7]; C12N0005-04 [ICS,7]
IPCI-2 A01H0005-00 [I,A]; A01H0005-10 [I,A]; C12N0015-82 [I,A];
C12N0015-29 [I,A]
IPCR A01H0005-00 [I,C]; A01H0005-00 [I,A]; A01H0001-00 [I,C*];
A01H0001-00 [I,A]; A01H0005-10 [I,C]; A01H0005-10 [I,A];
C07H0021-00 [I,C*]; C07H0021-00 [I,A]; C07H0021-04 [I,A];
C07K0014-195 [I,C*]; C07K0014-195 [I,A]; C07K0014-405 [I,C*];
C07K0014-405 [I,A]; C07K0014-415 [I,C*]; C07K0014-415 [I,A]; C12N
[I,S]; C12N0001-21 [I,C*]; C12N0001-21 [I,A]; C12N0005-04 [I,C*];
C12N0005-04 [I,A]; C12N0005-10 [I,C*]; C12N0005-10 [I,A];
C12N0009-02 [I,C*]; C12N0009-02 [I,A]; C12N0015-11 [I,C*];
C12N0015-11 [I,A]; C12N0015-29 [I,C]; C12N0015-29 [I,A];
C12N0015-31 [I,C*]; C12N0015-31 [I,A]; C12N0015-82 [I,C];
C12N0015-82 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 19:56:14 ON 25 SEP 2010)

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AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,

DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 19:56:39 ON 25 SEP 2010
SEA (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM

1 FILE PROMT
1170 FILE USPATFULL
316 FILE USPAT2
1 FILE WPIDS
1 FILE WPINDEX

L1 QUE (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM

FILE 'PROMT, USPATFULL, USPAT2' ENTERED AT 20:19:12 ON 25 SEP 2010

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L3 1487 DUP REM L2 (0 DUPLICATES REMOVED)
L4 744 S L3 AND (RHAMNOSUM OR ACIDOPHILUS OR LACTIS OR SUBTILIS OR PAL
L5 12 S L4 AND EDIBLE(P)ALGAE

=> s l5 and (inorganic or organic)
L6 12 L5 AND (INORGANIC OR ORGANIC)

=> s l6 and inorganic
L7 5 L6 AND INORGANIC

=> d l7 1-5

L7 ANSWER 1 OF 5 USPATFULL on STN
AN 2009:288609 USPATFULL
TI HOPM1 Mediated disease resistance to Pseudomonas syringae in Arabidopsis
IN He, Sheng Yang, Okemos, MI, UNITED STATES
Nomura, Kinya, East Lansing, MI, UNITED STATES
PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)
PI US 20090258825 A1 20091015
AI US 2008-938 A1 20080221 (12)
PRAI US 2007-902576P 20070221 (60)
DT Utility
FS APPLICATION
LN.CNT 8900
INCL INCLM: 514/012.000
INCLS: 435/320.100; 530/350.000; 435 4
NCL NCLM: 514/012.000
NCLS: 435/004.000; 435/320.100; 530/350.000
IC IPCI A61K0038-16 [I,A]; C12N0015-63 [I,A]; C07K0014-005 [I,A];
C12Q0001-00 [I,A]
IPCR A61K0038-16 [I,C]; A61K0038-16 [I,A]; C07K0014-005 [I,C];
C07K0014-005 [I,A]; C12N0015-63 [I,C]; C12N0015-63 [I,A];
C12Q0001-00 [I,C]; C12Q0001-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 5 USPATFULL on STN
AN 2009:34078 USPATFULL
TI AtMIN7 mediated disease resistance to Pseudomonas syringae in
arabidopsis
IN He, Sheng Yang, Okemos, MI, UNITED STATES
Nomura, Kinya, East Lansing, MI, UNITED STATES
PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)
PI US 20090031456 A1 20090129
AI US 2008-959 A1 20080221 (12)
PRAI US 2007-902576P 20070221 (60)
DT Utility
FS APPLICATION
LN.CNT 8708
INCL INCLM: 800/301.000

INCLS: 435/320.100; 800/317.000; 800/306.000; 800/320.000
 NCL NCLM: 800/301.000
 NCLS: 435/320.100; 800/306.000; 800/317.000; 800/320.000
 IC IPCI C12N0015-82 [I,A]; A01H0005-00 [I,A]
 IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];
 A01H0005-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 5 USPATFULL on STN
 AN 2005:43751 USPATFULL
 TI Method for culturing organic blue-green algae
 IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA
 PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF CHINA (non-U.S. corporation)
 PI US 20050037480 A1 20050217
 AI US 2004-800623 A1 20040316 (10)
 PRAI TW 2003-92122412 20030814
 DT Utility
 FS APPLICATION
 LN.CNT 290
 INCL INCLM: 435/252.100
 NCL NCLM: 435/252.100
 IPC [7]
 IPCI C12N0001-20 [ICM,7]
 IPCR C12N0001-12 [I,C*]; C12N0001-12 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 5 USPATFULL on STN
 AN 77:22304 USPATFULL
 TI Method for treatment of microorganisms
 IN Nakabayashi, Yutaka, Fukuoka, Japan
 PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S. corporation)
 PI US 4021303 19770503
 AI US 1975-645505 19751230 (5)
 RLI Continuation-in-part of Ser. No. US 1973-414576, filed on 9 Nov 1973, now abandoned
 PRAI JP 1972-112026 19721110
 JP 1972-112027 19721110
 DT Utility
 FS Granted
 LN.CNT 692
 INCL INCLM: 195/005.000
 INCLS: 426/656.000; 260/112.000R
 NCL NCLM: 435/259.000
 NCLS: 426/656.000; 435/804.000; 435/839.000; 435/843.000; 435/911.000; 435/921.000; 435/923.000; 435/924.000; 435/940.000; 435/941.000; 435/942.000; 435/946.000; 530/370.000; 530/371.000; 530/410.000; 530/412.000; 530/821.000; 530/824.000; 530/825.000
 IPC [2]
 IPCI A23J0003-00 [ICM,2]
 IPCR A23J0001-00 [I,C*]; A23J0001-18 [I,A]; A23J0003-00 [I,C*]; A23J0003-22 [I,A]; C12N0001-06 [I,C*]; C12N0001-06 [I,A]
 EXF 426/60; 426/656; 426/431; 426/478; 195/4; 195/5; 195/28N; 195/105; 260/112R
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 5 USPATFULL on STN
 AN 76:32360 USPATFULL
 TI Method for treatment of microorganisms
 IN Nakabayashi, Yutaka, Fukuoka, Japan

PA Dai-Nippon Sugar Manufacturing Co., Ltd., Tokyo, Japan (non-U.S. corporation)

PI US 3962466 19760608

AI US 1974-472327 19740522 (5)

RLI Division of Ser. No. US 1973-414576, filed on 9 Nov 1973, now Defensive Publication No.

PRAI JP 1972-112026 19721110

JP 1972-112027 19721110

DT Utility

FS Granted

LN.CNT 585

INCL INCLM: 426/060.000

INCLS: 426/650.000; 426/655.000; 195/028.000N; 195/104.000; 260/112.000R

NCL NCLM: 426/060.000

NCLS: 426/650.000; 426/655.000; 435/255.700; 435/259.000; 435/803.000; 435/839.000; 435/853.000; 530/371.000; 530/821.000; 530/824.000

IPC [2]

IPC1 A23L0001-28 [ICM,2]

IPCR A23J0001-00 [I,C*]; A23J0001-18 [I,A]; A23J0003-00 [I,C*]; A23J0003-22 [I,A]; C12N0001-06 [I,C*]; C12N0001-06 [I,A]

EXF 426/204; 426/364; 426/60; 426/656; 426/655; 426/650; 195/28N; 195/81; 195/121; 195/122; 195/123; 195/104; 195/105; 260/112R

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 17 5 kwic

L7 ANSWER 5 OF 5 USPATFULL on STN

SUMM . . . to be the most promising means for solving the shortage of proteins in the world, and such microorganisms are generally cultured in a medium comprising a carbon source such as saccharides, hydrocarbons, alcohols, carbon dioxide and the like, a nitrogen source such as ammonia, . . . with the requisite minerals and vitamins. The microorganisms which are known to produce proteins efficiently include yeasts, bacteria, green algae, blue-green algae and the like. However, these microorganisms usually have a tough cell membrane and, therefore, it is very difficult to . . . lysis of cells is extremely low and the foodstuffs produced from the cells containing such proteins, for example, a textured protein, an imitation milk or reformed products thereof in which a wheat flour, a corn flour, etc. is incorporated, generally tend. . .

SUMM . . . microorganisms containing fresh proteins, i.e., essentially natural proteins. The microorganisms which can be used in the present invention include broadly yeast, bacteria, algae and molds, but, from the standpoint of the use of foodstuffs, *Candida utilis*, *Saccharomyces cerevisiae*, *Saccharomyces fragilis* and *Saccharomyces carlsbergensis* are preferred since these microorganisms are known to be useful as foodstuffs. Also, *Lactobacillus burgaricus*, *Bacillus subtilis*, *Saccharomyces mize*, *Chlorella* or *Senedesumus*, or the like has been utilized in the foodstuff industry in Japan and can be. . . which can be used in the present invention are photosynthetic microorganisms, for example, *Spirulina* or *Arthrospirulina*. These microorganisms can be cultured by various cultivation methods well established in the fermentation field and are now available in large quantities. It is well known that, since the above edible microorganisms are surrounded by a tough cell membrane, mere drying of the cells usually results in poor digestability of the. . . cells usually does not possess the properties of processed proteins when the dried cells are used in foodstuffs as a protein raw material.

SUMM . . . compared with those which are not subjected to the chemical treatment. The following Reference Example was conducted on a fresh

yeast, *Candida utilis*, which is aerobically cultured in a medium containing waste molasses as a carbon source. In this experiment, the living cells are first subjected to various chemical treatments. . .

SUMM a 10% aqueous slurry (based on the weight of the dried cells) of the yeast was subjected to a chemical treatment as described hereinafter to prepare samples. One of the samples was adjusted to a . .

SUMM . . . washed twice with cold water each in a volume of 5 times the volume of the proteins, and the resulting protein portion was dissolved in a small amount of aqueous ammonia and sucrose was added to the solution in an amount. . . solution was spread on an aluminum foil as a thin film and dried with hot air (about 40°C) to prepare Protein Samples P-A, P-B, P-C, P-D and P-E, respectively. As a control, a 20% aqueous slurry (based on the dried yeast) of the same yeast was combined with an equal volume of 1N sodium hydroxide followed by stirring for 3 hours at a temperature of. . . were then washed with water, dissolved in aqueous ammonia and dried in the same manner as described above to prepare Protein-Sample P-F. The glutinous property, heat-coagulating property and nucleic acid content in the dry matter were then determined in each of the Protein-Samples and the results obtained are shown in Table 1.

SUMM In the above determinations, the glutinous property was measured by adding water to the Protein-Sample to a 30% solids content, kneading the mixture to absorb water into the Sample uniformly, and observing the glutinous strength. . .

SUMM The microorganisms which can be employed in the present invention are yeasts such as *Candida utilis* (generally called as *Tolula* yeast), *Saccharomyces cerevisiae*, *Saccharomyces carlsbergensis*, *Saccharomyces fragilis*, *Candida tropicalis*, *Candida lipolitica*, *Rodotrua glutinis* and the like, bacteria such as *Bacillus subtilis*, *Corynebacterium* sp. and the like, blue-green algae such as *Arthorospira*, *Spirulina* and the like, and green-algae such as *Chlorella vulgaris*, *Scenedesmus* sp. and the like.

SUMM . . . bitter taste. The extract thus obtained can be used, optionally after it is treated with activated carbon, for producing a yeast extract which is useful as a seasoning, a nutrient or a growth promoting substance for microorganisms. Alternatively, the alkali treatment. . .

SUMM The acid treatment can be conducted using inorganic acids such as hydrochloric acid, sulfuric acid, phosphoric acid, carbonic acid and the like or organic acids such as citric acid, lactic acid, acetic acid and the like at a pH of from 0.5 to 4.0. . .

SUMM The treatment with a hydrophilic solvent can be accomplished by using dipolar or monopolar organic solvents which are freely miscible with water. Suitable examples of the hydrophilic solvent are acetone, methanol, ethanol, propanol, isopropanol and. . .

SUMM When an alkaline yeast slurry is stirred in a sand grinder, the viscosity tends to increase and stable foams are formed during the rupturing. . .

SUMM . . . such as corn flour, wheat flour, soybean flour, potato flour and the like or a powder of wheat gluten, soybean protein, sodium alginate, starch and the like. The roll is generally rotated at a rate of 120 to 350 m per. . .

SUMM . . . to treatment (1) or (2) below depending upon the type of the final product desired. That is, (1) when a protein-rich product is desired, the mixture is centrifuged at an alkaline pH to separate the ruptured cell membrane and the supernatant. . . precipitate the proteins which are then collected using a suitable means. (2) When it is desired to merely eliminate the yeast odor, the above mixture is adjusted near the isoelectric point of the proteins, usually a pH of 3.5 to 4.5,. . . example, esters of sucrose

and fatty acids, a sugar alcohol, for example, inositol, xylitol, sorbitol, mannitol and the like, an edible polyphosphate which is allowed to be incorporated into foodstuffs, sodium alginate and the like can be dissolved in the slurry. . .

SUMM . . . nucleic acids and substances related thereto, vitamins and other growth promoting factors for microorganisms and can be utilized in a culture medium for microorganisms. Further, since the waste liquor is generally free from a bitter taste and also free from a burning smell or a decomposition odor which is inherent in the protein obtained by the conventional alkali extraction method, it can be used as seasonings or nutrients by adjusting the waste liquor. . . merely concentrating the waste liquor. If it is desirable to remove the nucleic acids or substances related thereto and the yeast odor, the waste liquor can be treated with activated carbon which is then removed to obtain a yeast extract useful as a seasoning. The recovered activated carbon as it is or the washings obtained in washing of the. . .

DETD The cultured cells of *Saccharomyces cerevisiae* obtained by aerobically culturing the microorganism in a nitrogen-rich medium comprising waste molasses as a carbon source for 17 hours were washed with water and filtered using a filter press to obtain 32 Kg of a yeast cell cake having a water content of 69% by weight. Analysis of the completely dried cells showed 54.6% crude proteins, . . . acids. The above cell cake was then slurried in water to produce an aqueous slurry containing 10% by weight of yeast cells on a dry basis, and the slurry was adjusted to a pH of 12.4 with 5N sodium hydroxide and stirred at a temperature of 18°C for 40 minutes. The cells thus treated were then separated into alkali treated yeast cells and an alkali waste liquor by a skimming type centrifuge, and the separated yeast cells were washed twice with warm water (about 35°C) in a volume equal to that of the slurry to complete the alkali treatment. Analysis of the completely dried cells of the alkali treated yeast showed 55.9% crude proteins and 0.87% crude nucleic acid. The pH of the yeast cells was then adjusted to 4.0 with 5N hydrochloric acid to prevent excess foaming and fed into a 10 liter. . . ensure complete rupture of the cells (the rupture ratio counted microscopically was found to be 96%), a precipitate comprising ruptured yeast cell membrane and proteins was recovered using a skimming type centrifuge, washed twice with water and adjusted to a pH. . .

DETD 39 Kg (73% water content) of packed yeast cells of *Candida utilis* was obtained in the same manner as described in Example 1. Analysis of the absolutely dried. . . warm water at 40°C, and the resulting slurry was stirred at a temperature of 40°C for 2 hours, separated into yeast cells and an alkali waste liquor using a skimming type centrifuge. The yeast cells were washed twice with warm water. Analysis of the completely dried cells obtained above showed 61.2% crude proteins and. . . complete the rupture of the cell membranes (the percent rupture observed microscopically was found to be 93%). The resulting ruptured yeast cell liquid was concentrated to a 20% solids content using a thin-film evaporator and 1 Kg of sucrose was dissolved. . . with 1N sodium hydroxide, concentrated again to a 37% solids content and finally spray-dried to obtain 3.2 Kg of a yeast extract having a low sodium chloride content. The yeast extract thus obtained was almost free from a bitter taste and a puckery taste and exhibited a good flavor. Thus, . .

DETD To 30 Kg of a living yeast of *Candida utilis* was added 0.3N hydrochloric acid to adjust the pH to 2.0 and the mixture was kept at. . . a pH value of 4.0 with 0.5N sodium hydroxide, and slurried in water to prepare an aqueous slurry containing 15% yeast cells on a dry basis. The slurry was then subjected to rupture using a sand

grinder in the same manner. . .

DETD To 10 g (71% water content) of a living Torula yeast was added 2.5 ml of 1N sodium hydroxide while thoroughly blending. After allowing the mixture to stand for 5 minutes. . . thorough stirring to complete the alkali treatment. Separately, 22.5 ml of water was added to 10 g of the same yeast to obtain a control. Each of the alkali treated yeast and the control yeast was then ruptured using a Brawn Cell Homogeniser for 5 minutes using glass beads having a grain size of about 0.5 mm. Analysis of the released ratio of nitrogenous compounds in each instance showed 81% in the alkali treated yeast and 49% in the control.

DETD 100 ml of ethanol was slowly added to 10 g of a living Torula yeast while thoroughly communiting the yeast in a mortar and the mixture was maintained at a temperature of 43°C for 20 minutes. The cells were then. . .

DETD 100 cc of ethanol was added slowly to 10 g (75% water content) of living cells of Bacillus megatherium while thoroughly stirring, and the mixture was treated at a temperature of 40°C for 20 minutes. The cells were. . . cells. Separately, a sample, as a control, was prepared by adding 10 g (75% water content) of living cells of Bacillus magatherium to 22.5 ml of water and treated using a Brawn Cell Homogeniser for 10 minutes in the same manner. . .

DETD A baker's yeast (*Saccharomyces cerevisiae*) was aerobically cultured in a culture medium containing waste molasses and a sufficient amount of a nitrogen source for 18 hours and, after removal of the culture liquid, the cells were washed thoroughly with water to obtain 42 Kg (72% water content) of a yeast cell cake. 10 g of the yeast cell cake thus obtained were then slurried in water to produce a slurry containing 10% cells on a dry basis,. . . of 6.0 with 1N hydrochloric acid. The slurry thus treated was centrifuged using a skimming type centrifuge to collect the yeast cells and the cells were washed twice with warm water (about 35°C) in an amount equal to that of the previous slurry. 3 Kg of the resulting alkali-treated yeast cells (total amount, 6 Kg; 73% water content) was spray-dried in the same manner as described in Example 1, and. . . observation of the cells which had been passed through the roll mill four times showed no original cells of the yeast. 2 g of the above treated cells was then dispersed and dissolved in 10 cc of 0.1N sodium hydroxide and. . .

CLM What is claimed is:
1. A method for producing a yeast extract comprising nucleic acids and related substances which comprises chemically treating microorganisms with an alkali to extract material from said cells while substantially leaving within said cells protein contained within said cells, separating the thus treated microorganism cells from a waste liquor and adjusting said waste liquor to. . .

CLM What is claimed is:
. . . absorb nucleic acids and substances related thereto, and filtering the waste liquor to remove said activated carbon to obtain a yeast extract.

=> s 17 and salt?

L8 3 L7 AND SALT?

=> d 18 1-3

L8 ANSWER 1 OF 3 USPATFULL on STN

AN 2009:288609 USPATFULL

TI HOPM1 Mediated disease resistance to *Pseudomonas syringae* in *Arabidopsis*

IN He, Sheng Yang, Okemos, MI, UNITED STATES
 Nomura, Kinaya, East Lansing, MI, UNITED STATES
 PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)
 PI US 20090258825 A1 20091015
 AI US 2008-938 A1 20080221 (12)
 PRAI US 2007-902576P 20070221 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 8900
 INCL INCLM: 514/012.000
 INCLS: 435/320.100; 530/350.000; 435 4
 NCL NCLM: 514/012.000
 NCLS: 435/004.000; 435/320.100; 530/350.000
 IC IPCI A61K0038-16 [I,A]; C12N0015-63 [I,A]; C07K0014-005 [I,A];
 C12Q0001-00 [I,A]
 IPCR A61K0038-16 [I,C]; A61K0038-16 [I,A]; C07K0014-005 [I,C];
 C07K0014-005 [I,A]; C12N0015-63 [I,C]; C12N0015-63 [I,A];
 C12Q0001-00 [I,C]; C12Q0001-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 3 USPATFULL on STN
 AN 2009:34078 USPATFULL
 TI AtMIN7 mediated disease resistance to Pseudomonas syringae in
 arabidopsis
 IN He, Sheng Yang, Okemos, MI, UNITED STATES
 Nomura, Kinaya, East Lansing, MI, UNITED STATES
 PA Michigan State University, Lansing, MI, UNITED STATES (U.S. corporation)
 PI US 20090031456 A1 20090129
 AI US 2008-959 A1 20080221 (12)
 PRAI US 2007-902576P 20070221 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 8708
 INCL INCLM: 800/301.000
 INCLS: 435/320.100; 800/317.000; 800/306.000; 800/320.000
 NCL NCLM: 800/301.000
 NCLS: 435/320.100; 800/306.000; 800/317.000; 800/320.000
 IC IPCI C12N0015-82 [I,A]; A01H0005-00 [I,A]
 IPCR C12N0015-82 [I,C]; C12N0015-82 [I,A]; A01H0005-00 [I,C];
 A01H0005-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 3 OF 3 USPATFULL on STN
 AN 2005:43751 USPATFULL
 TI Method for culturing organic blue-
 green algae
 IN Chiueh, Chuang Chun, Taipei, TAIWAN, PROVINCE OF CHINA
 PA Far East Microalgae Ind. Co., Ltd., Taipei City, TAIWAN, PROVINCE OF
 CHINA (non-U.S. corporation)
 PI US 20050037480 A1 20050217
 AI US 2004-800623 A1 20040316 (10)
 PRAI TW 2003-92122412 20030814
 DT Utility
 FS APPLICATION
 LN.CNT 290
 INCL INCLM: 435/252.100
 NCL NCLM: 435/252.100
 IPC [7]
 IPCI C12N0001-20 [ICM,7]
 IPCR C12N0001-12 [I,C*]; C12N0001-12 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d hist

(FILE 'HOME' ENTERED AT 19:56:14 ON 25 SEP 2010)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOZ, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 19:56:39 ON 25 SEP 2010
SEA (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM

1 FILE PROMT
1170 FILE USPATFULL
316 FILE USPAT2
1 FILE WPIDS
1 FILE WPINDEX
L1 QUE (CYANOBACT? OR BLUE-GREEN) AND CULTUR? AND (MEDIA OR MEDIUM

FILE 'PROMT, USPATFULL, USPAT2' ENTERED AT 20:19:12 ON 25 SEP 2010

L2 1487 S L1
L3 1487 DUP REM L2 (0 DUPLICATES REMOVED)
L4 744 S L3 AND (RHAMNOSUM OR ACIDOPHILUS OR LACTIS OR SUBTILIS OR PAL
L5 12 S L4 AND EDIBLE(P)ALGAE
L6 12 S L5 AND (INORGANIC OR ORGANIC)
L7 5 S L6 AND INORGANIC
L8 3 S L7 AND SALT?

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
39.31	65.75

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 20:25:47 ON 25 SEP 2010